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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/533,723	05/03/2005	Kam Choon Kwong	SG 020030	7797

24737 7590 02/15/2007

PHILIPS INTELLECTUAL PROPERTY & STANDARDS
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EXAMINER

LEVI, DAMEON E

ART UNIT	PAPER NUMBER
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2841

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	02/15/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/533,723

Applicant(s)

KWONG ET AL.

Examiner

Dameon E. Levi

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11/20/2006(Amendment).
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 03 May 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____.

- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-6 are rejected under 35 U.S.C. 103(a) as obvious over Noji et al US

Patent 4494095 in view of Nigorikawa US Patent 4628412.

Regarding claim 1, Noji et al discloses a device comprising:

a frame(element 11, Figs 1-12) provided with an outer side wall and leg sections(element 1 la, Figs 1-12) extending from said walls, and a printed circuit board(element 10, Figs 1-12) having a plurality of spaced holes(element 10h, Figs 1-12), said leg sections extending through respective holes and being soldered to said printed circuit board so as to couple said frame to said printed circuit board, said printed circuit board having a part provided with at least one of said spaced holes and extending through said outer side wall(see elements 11, 1 la, see protruding part of element 10 at vicinity of element 10a, Fig 4).

Noji et al does not expressly disclose the frame being coupled to the printed circuit board such that the frame covers an edge of the printed circuit board on each side thereof.

Nigorikawa discloses a shielding case assembly with a the frame being coupled to a printed circuit board such that the frame covers an edge of the printed circuit board on

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each side thereof(see frame 11, printed circuit board 14, protruding portion of circuit board with 5 holes, adjacent to leg section at 15a, figs 3,4).

Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have arranged the frame such that it covers an edge of the printed circuit board in the manner as taught by Nigorikawa in the shielding assembly as taught by Noji et al for the purpose of effectively containing and attenuating unwanted high frequency EMI emanating from components housed therein.

Regarding claim 2, Noji et al discloses wherein said outer side wall is provided with at least one cut-out part, in which said leg section is located and through which said part of

said printed circuit board extends upon coupling said frame to said printed circuit board(see cut-out between elements 1 la, Figs 1-12).

Regarding claim 3, Noji et al discloses wherein said frame further comprises a plurality of outer side walls each provided with respective leg sections, said leg sections extending through respective holes located in respective parts of the printed circuit board, which extend through said outer side walls(see elements 11, 1 la, 10a, figs 1-12).

Regarding claim 4, Noji et al discloses wherein said frame further comprises one or more inner walls bridging said outer side wall and provided with respective leg sections(see elements 12, 12a, respectively, Figs 1-12).

Regarding claim 5, Noji et al discloses wherein said printed circuit board frame(elements 10, Figs 1-12) comprises inner and outer parallel surfaces delimited by

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said outer side wall and having one or more second throughgoing holes(elements 10b, Figs 1-12) of said plurality of spaced holes, said throughgoing holes being configured to respective leg sections(elements 12a, Figs 1-12) of said frame upon coupling said frame to said printed circuit board.

Regarding claim 6, Noji et al discloses wherein said printed circuit board extends perpendicularly to the outer side wall of said frame upon coupling said frame to said printed circuit board(see elements 11, see protruding part of element 10 at vicinity of element 15a, Fig 4).

Response to Arguments

Applicant's arguments with respect to claims 1-6 have been considered but are moot in view of the new ground(s) of rejection.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).


A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dameon E. Levi whose telephone number is (571) 272-2105. The examiner can normally be reached on Mon.-Thurs. (9:00 - 5:00) IFP, Fridays Telework.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard can be reached on (571) 272-1984. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


Dameon E. Levi
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Dameon E Levi
Examiner
Art Unit 2841

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